## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit:

Examiner:

In re application of:

Charles GERDAY et al.

Appl. No. To Be Determined

Confirmation No. To Be Determined

Filed: March 18, 2004

For: COLD-ACTIVE BETA Customer No.:

GALACTOSIDASE, THE PROCESS FOR ITS

PREPARATION AND THE USE

**THEREOF** 

Atty. Docket No.:

26694

To Be Determined

To Be Determined

31601-201282

## **Information Disclosure Statement**

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 CFR § 1.56, Applicants hereby notify the U.S. Patent and Trademark Office of the documents that are listed on the attached PTO-1449 forms. All of the listed references are of record in parent Application No. 09/501,136 where copies may be obtained in accordance with customary PTO practice. Applicants request that these documents be considered and listed on the face of any patent granted in this application.

Applicants: Charles GERDAY et al. Appl. No. *To Be Determined* 

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

Date: March 18, 2004

Respectfully submitted,

Nancy J. Axelrod Registration No. 44,014

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Substitu	te for form 1449A/PTC	)		Complete if Known			
				Application Number	To Be Determined		
INFO	DRMATION	DIS	CLOSURE	Filing Date	March 17, 2004		
STA	TEMENT B	ΥΑ	PPLICANT	First Named Inventor	Charles GERDAY		
				Group Art Unit	To Be Determined		
(use as many sheets as necessary)				Examiner Name	To Be Determined		
Sheet	1	of	2	Attorney Docket Number	31601-201282		

U.S. PATENT DOCUMENTS							
Examiner Initials *	Cite No.1	U.S. Patent Document  Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear		
	1	4,007,283	Crisan et al.	02-08-1977			
	2	4,237,230	Iida et al.	12-02-1980			
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	FOREIGN PATENT DOCUMENTS								
Examiner	Cite	Foreign Patent Document			Name of Patentee	Date of Publication of	Pages, Columns, Lines, Where Relevant		
Initials*	No.1	Office <sup>3</sup>		ind Code <sup>5</sup> if known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T <sub>6</sub>	
	3	WO	01/04276	Al	Gerday et al.	01-2001			
	4	WO	92/02143			02-1992			
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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_	_	_	CLOSURE	Filing Date		
STATEMENT BY APPLICANT				First Named Inventor	Charles GERDAY	
				Group Art Unit	To Be Determined	
(use as many sheets as necessary)			necessary)	Examiner Name	To Be Determined	
Sheet	2	of	2	Attorney Docket Number	31601-201282	

Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
	5	Godfrey et al.,"Industrial Enzymology: the application of enzymes in industry," <i>The Nature Press</i> , Chapter 4, pp. 268-277 (1983).	
	6	Hoyoux et al., "Cold-Adapted β-Galactosidase from Antartic Psychrophile Pseudoaltermonas Haloplanktis," Applied and Environmental Microbiology 67: 1529-1535 (April 2001).	
	7	Hoyuox et al., "A Cold Adapted β-Galactosidase from Antarctic Bacteria," Laboratory of Biochemistry, Institute of Chemistry B6, University of Liege, B-4000 Liege, Bioforum (May 1999).	
	8	Heyoux et al., "A Cold Adapted β-Galactosidase from Antarctic Bacteria," Bioforum, 6, May 1999, 1 page.	
	9	JM Francois et al., "A Cold Adapted Bacterial β-Galactosidase from Antarctica," Database EMBL online (1998), Accession No. AJ 131635.	
	10	Morita, "Psychrophilic Bacteria," Oregon Agricultural Experiment Station, Bacteriological Reviews, technical paper No. 4006, June 1975, pp. 144-167.	
	11	Ngo et al., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox," <i>The Protein Folding Problem and Tertiary Structure Prediction</i> , 1994, Merz et al. (ed.), Birkhauser, Boston, MA, pp. 433 and 492-495.	
	12	Rahim et al, "Production and Characterization of β-Galactosidase from Psychrotrophic Bacillus subtitis KL88,"  Biotechnology and Applied Biochemistry 13:245-256 (1991).	
	13	Trimbur et al., "Characterization of a Psychrotorophic Arthrobacter Gene and Its Cold-Active β-Galactosidase," Applied and Environmental Microbiology, Vol. 60, pp. 4544-4552 (December 1994).	

Examiner	Date	
Signature	Considered	
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